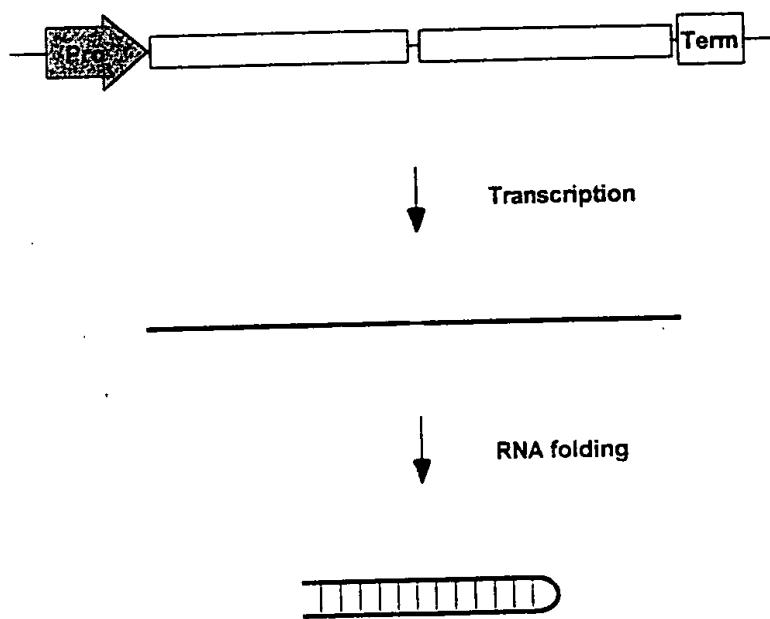
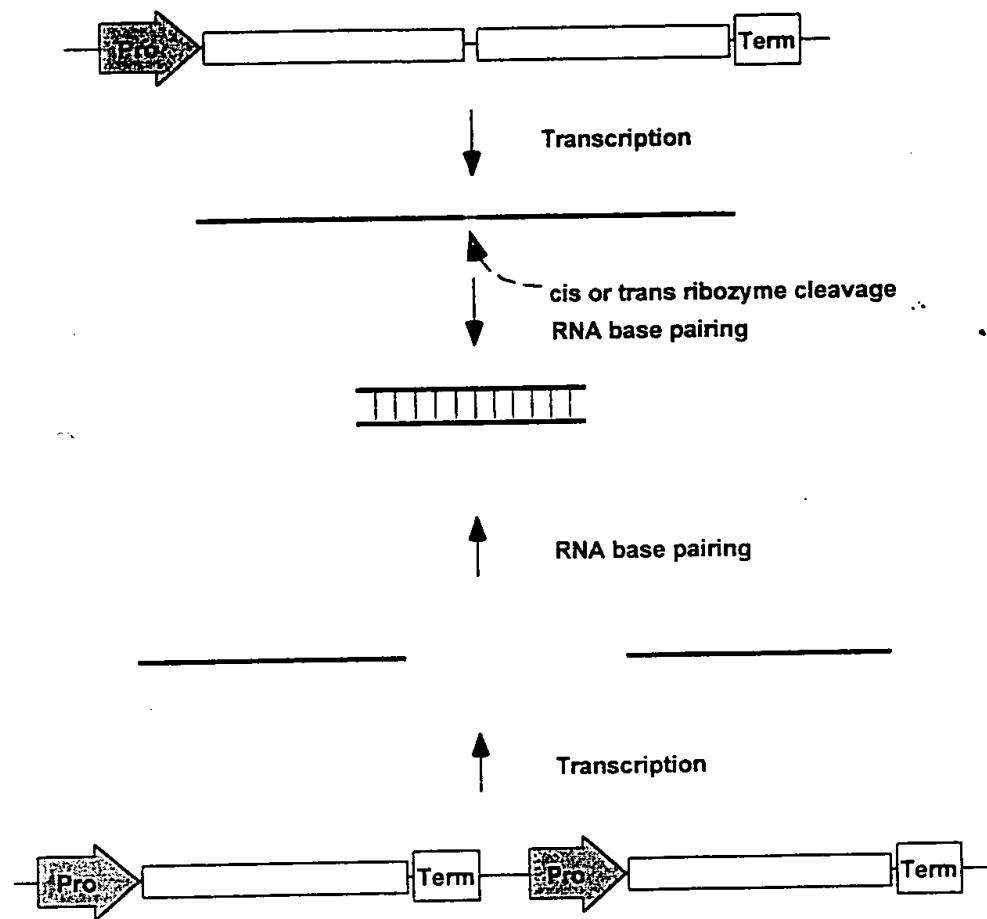


**dsRNA Expression Cassett I: Hairpin RNA**



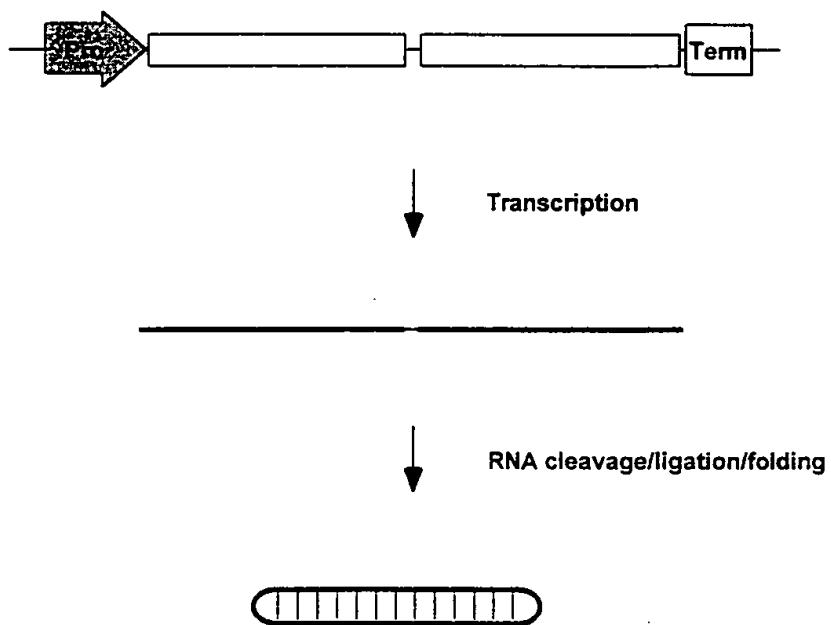
**Figure 1**

**dsRNA Expression Cassette II: "Tru" dsRNA**



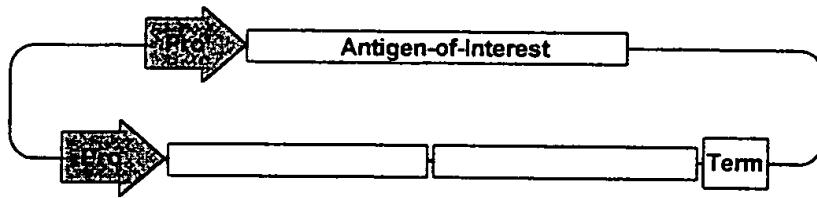
**Figure 2**

**dsRNA Expression Cassette III: Circular RNA**



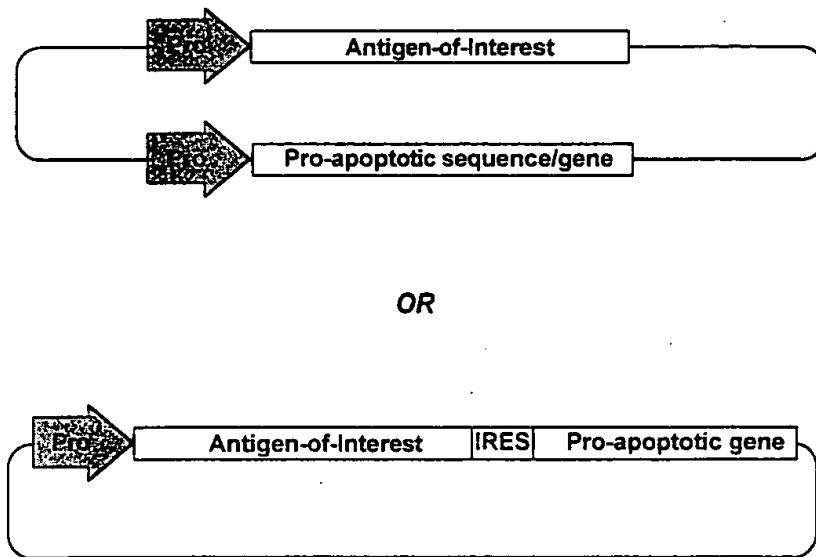
**Figure 3**

**Plasmid v ctr with dsRNA and antigen cass ttes**



**Figure 4**

**Pro-apoptotic vectors with antigen cassettes**



**Figure 5**

IL10

COX2

1 GTC TGGGAACCTCCCTC TTGAGGCCCTCTCTCAACTCCAAAGCCGAGAAGCTCTCAGACAGCAAAGCCCTAACCCCG  
TAACTCTTGAGGAGAGCTGGGGAGAGUAG GTGAGGGTGTGCGUTTGCGGGGAGTCTGTGTTCGGAAGGGGGGC  
  
74 CTTGGCGCCCTGGCCCCCGCTGTGAAATGCTCCTGGCGGCCCTCTCTGTGCG  
GGGGGGGGGAGGGGGGCTGCGACGCTACAGCAGGGGGCGCGGGGACGGACGGACGGCG  
CGTC CGTCGCGCTCAAGGCCATA  
GCCAG GACGGGGAGTCGCTATGCT  
  
149 GAAATCTCTTGTTGTTGCTTACCCATGTCATAAACCGAGGGTGTATGATGAGTGCG  
CGTCTTACGAGCGACAAAGGCTGGTACAGTTTGCGCTCACATACATACTAACCCCTAAACTGCGTCAATTGCG  
  
225 ATTGTACGGCGACGGGATGCTATGGAGAAAACCTGCTCAACACCGGAATTGGACAGAAATAAAATTATTC  
TAACATGGGCGCTGCTCTAAGATACCTCTTTGACGAGTTGCGCTTAAAGACTGTCTTATTTAATAG

YY1

IRF2

1 AACTGACGG**C**TTCTATTCCATTTCATACACCCCTAGCAACACTTATAACCTTGGATTGTATT**G**TAGC  
TTGAGTGCCCC**G**AAACTAAGGTAAGTGTGGATCGTTGTGAATATGGAACGGCTTAAACATAAC**C**ATCG  
72 CTTCMAAAAGCACACTGAGAGGGCACCATGGCGGTGGAAARGGATGGCATGGCGCGTGGAGGAGCACAGT  
**C**ACTTTTCTCGTGTGA**A**CTCCCGTGTACGGCACCTTCTACGGTAGCGGGCACCCACCTCTCGTCTA  
146 AAACCTCAACACCGATGCCGGGUTCAAGTGGCTTAAACAGGAAAGAAAGATTTTCAAGATGCCUTGGATGCT  
TTTGAGGTTGTGCTAGUCCCCCGAGTTACCG**G**AA**T**TCTTCCCTTCTCTAAAGTCTAGGGACCTACGTA  
219 GCGCTTAGACATGGGTGGGATGTGGAAAAGATGCACCCACTCTTAGAAACCGGGCAATCCATACAGGAA  
CGCGSATCTTACCCACCCCTACACCTTTCTAAGTGTGAGAAATCTTGGCGCGTAGGTATGTCTT  
289 AGCAT**C**AAACCGAGGATAGATAAAACCTGATCCCAAAACATGGAAAGGGGAATTCTAGATGCGCCATGAATTCTT  
TCGTAGTTGGCTCT**C**ATCTATTGGACTAGGGTTTGTACCTCCGCTTAACTCTACGGCTACTTAAGGAA  
362 GCGTGTATATTGAGAA**G**TCAAGGATAAAACGATTAAGAAAGGAAATAATGCCCTTCAG**G**GTCTACGGGAATTCTG  
CGGACTATAATCTTCAGTTCTATTTGGTATTCTTCTTATTACGGAA**G**TCAGGGCTTACGAC

**Figure 6**

## **LEGEND**

► :starting methionine  
↔ :complementary sequence for the hammerhead ribozyme  
← - → :complementary sequence for the hairpin ribozyme

Boxed sequences: target sequence for the chosen ribozyme

**Bold characters:** target sequences for hammerhead ribozymes

**Bold and underlined characters:** target sequences for both hammerhead and hairpin ribozymes